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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/708,157	02/12/2004	Yao-Ching Su	AUOP0010USA	2156
27765	7590	02/06/2006	EXAMINER	
NORTH AMERICA INTELLECTUAL PROPERTY CORPORATION P.O. BOX 506 MERRIFIELD, VA 22116			GUHARAY, KARABI	
			ART UNIT	PAPER NUMBER
			2879	

DATE MAILED: 02/06/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If no period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on *Amendment, filed on 1/25/06.*
 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-4 and 7-20 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-4 and 7-16 is/are rejected.
- 7) ☒ Claim(s) 17-20 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 1/26/06.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

Response to Amendment

Amendment, filed on 01/25/2006 has been considered and entered.

Claims 25-28 have been cancelled.

Currently claims 1-4 & 7-20 are pending.

Upon further consideration and search, the finality of the previous office action has been withdrawn.

Information Disclosure Statement

The information disclosure statement (IDS) submitted on 01/25/2006 was filed after the mailing date of the Final rejection on 12/05/05. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-4, 7-14 are rejected under 35 U.S.C. 102(b) as being anticipated by Chen et al. (US 6515420).

Regarding claim 1, Chen et al. disclose a plasma display device (see Fig 2) comprising a plurality of first closed rib units (some of 60b of Fig 2 & 3, formed of two intersecting ribs 58 & 53, lines 35-40 of column 4) between a front substrate (44) and a rear substrate (42); a plurality of first discharge spaces defined between the front

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substrate, the rear substrate, and each of the first closed rib units (some of the 60b); and a plurality of sub-pixel units (62), each of the first discharge spaces comprising at least two of the sub-pixels (lines 55-60 of column 3).

Regarding claim 2, Chen et al. discloses that the sub-pixel units (62) comprise a plurality of red sub-pixel units, blue sub-pixel unit, and green sub-pixel unit wherein one of red, green and blue constitute a pixel unit (lines 65 of column 3- line 4 of column 4).

Regarding claim 3, Chen et al. discloses that the each of the sub-pixel unit (62) comprises a first electrode (46), a second electrode (48), and an addressing electrode (50) opposite to the first and second electrode for igniting plasma in each of the sub-pixel (see Fig 2, lines 5-25 of column 3).

Regarding claim 4, Chen et al. disclose that the first and second electrode of each of the sub-pixel unit (62) comprises a first protrude portion (462) and a second protruded portion (482) opposing each other and igniting plasma in each sub-pixel units (lines 5-13 of column 4).

Regarding claim 7, Chen et al. disclose that the each of the first closed rib units (60b) comprises at least one extended rib (58) for defining each of the sub-pixel units in each of the first discharge spaces without completely separating the sub-pixel units in the first discharge spaces (60b, see Fig 2).

Regarding claim 8, Chen et al. discloses that the each of the first closed rib units comprises a quadrilateral ring (see Fig 3).

Regarding claim 9, Chen et al. disclose that the sub pixel units (62) of each pixel are arranged in delta (since 6 sub-pixels shown in fig 2, have two red R, two green (G)

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and two blue (B) along the extension of rib 58, while along the extension of second rib (53) sub-pixels are arranged like R G B, thus one set of RGB are arranged in delta).

Regarding claim 10, Chen et al. discloses that the sub-pixel units of each pixel are arranged in a line (see Fig 2).

Regarding claims 11-14, Chen et al. disclose a plurality of second discharge spaces (some other 60bs), each of which comprises one of the sub-pixel units (red or green or blue), a plurality of second closed rib structure (some of the 60b's), and the second discharge spaced are defined between front substrate and rear substrate and each of the second closed rib units which comprises a structure of a quadrilateral ring (see Fig 2 & 3).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 15-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chen et al., as applied to claim 1 above, and further in view of Betsui et al. (US 5825128).

Regarding claims 15-16, Chen et al. disclose all the limitations of claim 15-16, except for the first closed rib units are waffle structure ribs.

However, Betsui, in the same field of plasma display, discloses closed rib units (see Fig 7A) where the units are waffle shaped ribs. Betsui further teaches that the such

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structure of the ribs provide brightness enhancement of the display screen by decreasing the area of the non-luminescent portion of the display screen (lines 36-38 of column 2).

Thus, it would have been obvious to one having ordinary skill in the art at the time the invention was made to have waffle structured ribs, as taught by Betsui, in the device of Chen et al., since this will enhance the brightness of the display screen.

Allowable Subject Matter

Claims 17-20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

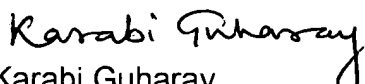
Regarding claims 17-20, the prior art of record neither shows nor suggest a plurality of second discharge spaces, each of which comprises only one of the sub-pixel units, together with other cited limitations.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karabi Guharay whose telephone number is (571) 272-2452. The examiner can normally be reached on Monday-Friday 8:30 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimeshkumar D. Patel can be reached on (571) 272-2457. The fax phone number for the organization is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Karabi Guharay
Primary Examiner
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